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J Chromatogr B Biomed Sci Appl. 2000 Jun 23;743(1-2):403-8.
PMID: 10942311 [PubMed - indexed for MEDLINE]☐ 2: [Rito-Palomares M, Negrete A, Miranda L, Flores C, Galindo E, Serrano-Carreón L.](#) Related Articles, Links The potential application of aqueous two-phase systems for in situ recovery of 6-pentyl-infinity-pyrone produced by *Trichoderma harzianum*.
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PMID: 11372649 [PubMed - indexed for MEDLINE]☐ 6: [Ribeiro SC, Monteiro GA, Cabral JM, Prazeres DM.](#) Related Articles, Links Isolation of plasmid DNA from cell lysates by aqueous two-phase systems.
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PMID: 8798879 [PubMed - indexed for MEDLINE]


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-  Interaction between tryptophan residues and hydrophobically modified dextran. Effect on partitioning of peptides and proteins in aqueous two-phase systems.
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-  Optimization of conditions for bacteriocin extraction in PEG/salt aqueous two-phase systems using statistical experimental designs.
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PMID: 9699977 [PubMed - indexed for MEDLINE]

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-  Use of aqueous two-phase systems in sample preparation for polymerase chain reaction-based detection of microorganisms.

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[Related Articles, Links](#)



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PMID: 10942295 [PubMed - indexed for MEDLINE]

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[Related Articles, Links](#)



Effect of biological suspensions on the position of the binodal curve in aqueous two-phase systems.

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PMID: 10942267 [PubMed - indexed for MEDLINE]

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PMID: 9587951 [PubMed - indexed for MEDLINE]

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May 12 2004 06:43:50

HIRUDIN

Hirudin is a 65 amino-acid cysteine-rich polypeptide, produced by the salivary gland of the medicinal leech, which is now produced as a recombinant molecule.

Hirudin binds tightly to thrombin at thrombin's accessory binding site and acts as a thrombin antagonist.

Recombinant **hirudin (Lepirudan or Refludan®)** is recently FDA-approved for use in patients with heparin-induced thrombocytopenia/thrombosis syndromes. In general, monitoring of patients on this therapy is done by following the aPTT. However, the PT is also affected, making initiation of warfarin therapy difficult. Lepirudan accumulates with renal insufficiency, and about 40% of patients on long-term therapy will develop antibodies directed against the hirudin:thrombin complex. These antibodies tend to develop after 7-10 days of therapy and increase the anti-thrombotic effect of the drug.

Other synthetic thrombin inhibitors, such as **argatroban (novastan)**, and Xa inhibitors are in various stages of development as new anti-thrombotic agents.



The Stabilization and Release of Hirudin from Liposomes or Lipid-Assemblies Coated with Hydrophobically Modified Dextran

Submitted: January 10, 2000; Accepted: March 1, 2000

Russell J. Mumper^{1*} and Allan S. Hoffman²

¹Center for Pharmaceutical Science & Technology, College of Pharmacy, University of Kentucky, Lexington, Kentucky 40536-0082

²Center for Bioengineering, University of Washington, Seattle, Washington 98195

ABSTRACT Hirudin is a 65– amino acid peptide and the most potent and specific known inhibitor of thrombin ($K_i = 0.2$ pM). The short elimination half-life of hirudin from the body (1 hour) necessitates the use of a sustained and controlled delivery system.

A proliposome method was used to entrap hirudin in liposomes coated with palmitoyl dextran-coated liposomes and lipid-assemblies. In vitro release studies of hirudin were performed using the lipid systems enclosed in dialysis membranes or deposited in the pores of a vascular graft. The activity of hirudin and released hirudin was measured using a thrombin chromogenic substrate assay.

Entrapment efficiencies of hirudin in lipid-assemblies approached 100%, however, the release of hirudin from these systems was rapid with 90% released in 17 hours. Entrapment efficiencies of hirudin in coated-liposomes ranged from 5% to 55% and were dependent on several variables. Palmitoyl dextran– coated-liposomes showed a burst of 30% hirudin released in 5 hours with an additional 10% to 35% released over the next 600 hours. In all samples, 30–40% of the hirudin remained associated with the lipid-systems even after 600 hours. The released hirudin retained only 33% of its ability to inhibit thrombin when released from uncoated liposomes. However, hirudin retained 95% of its thrombin inhibitory activity when released from palmitoyl dextran– coated liposomes.

Coated liposomes were found to stabilize hirudin and result in greater retention of hirudin's ability to inhibit thrombin's enzymatic activity, although the mechanism is not yet understood.

KEYWORDS: hirudin, stabilization, in vitro release, liposomes, thrombin, dextran, vascular graft

INTRODUCTION

Hirudin, a 65– amino acid peptide (MW 7000), is the most potent and specific known inhibitor of thrombin ($K_i = 0.2$ pM). It was originally isolated from medicinal leeches (*Hirudo medicinalis*) in the late 1950s, but can now be made by recombinant techniques. Recombinant hirudin (REVASCTM) has recently been approved in Europe for the prevention of deep-vein thrombosis following knee and hip replacement surgery. The short elimination half-life of hirudin from the body (1 hour) necessitates the use of a sustained and controlled delivery system. Hirudin has been considered as an alternative to heparin for a variety of reasons [1–3]. Other investigators have looked at ways to retard its rapid elimination from the blood, including coupling it to high molecular weight carriers such as dextran [4]. The chemical immobilization of hirudin on polymer surfaces for use as thromboresistant biomaterials has been investigated [5]. Oral delivery of hirudin via liposome systems has also been studied [6].

In this work, hirudin was encapsulated into two different lipid delivery systems: coated-liposomes and lipid-assemblies. The lipid delivery systems were composed of phospholipids combined with one of two hydrophobically modified polysaccharides, either palmitoyl-dextran (PalD) or palmitoyl-dextran phosphate (PalDP). In an aqueous environment, these hydrophobically modified polysaccharides (ie, conjugates) self-associate to form hydrophobic

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L6	(hydrophob\$ or surfactant or Amphiphilic) and (aqueous same two adj phase) and (fusion or chimer\$)	824
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L4	(hydrophob\$ or surfactant or Amphiphilic) same (aqueous same two adj phase) and (fusion or chimer\$)	0
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L1	hydrophob\$ and (fusion or chimer\$)same aqueous adj two adj phase\$	8

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☐ 1. Document ID: US 20040023379 A1

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8: Entry 1 of 57

File: PGPB

Feb 5, 2004

JB-DOCUMENT-NUMBER: 20040023379

JB-FILING-TYPE: new

MENT-IDENTIFIER: US 20040023379 A1

E: Antisense modulation of hepatoma-derived growth factor expression

ICATION-DATE: February 5, 2004

NTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
nett, C. Frank	Carlsbad	CA	US	
ie, Kenneth W.	Del Mar	CA	US	

L-CURRENT: 435/375; 514/44, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 20030211296 A1

8: Entry 2 of 57

File: PGPB

Nov 13, 2003

JB-DOCUMENT-NUMBER: 20030211296

JB-FILING-TYPE: new

MENT-IDENTIFIER: US 20030211296 A1

E: Identification card printed with jet inks and systems and methods of making same

ICATION-DATE: November 13, 2003

NTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
es, Robert	Andover	MA	US	
Daoshen	Boxborough	MA	US	
lloux, Dennis	Westminster	MA	US	

L-CURRENT: 428/195.1; 503/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 20030191040 A1

L8: Entry 3 of 57

File: PGPB

Oct 9, 2003

GPUB-DOCUMENT-NUMBER: 20030191040

GPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030191040 A1

TITLE: Liquid cleaning compositions and their use

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
driaanse, Arend Jan	Vlaardingen		NL	
an Dijk, Willem Robert	Vlaardingen		NL	
age, Ronald	Vlaardingen		NL	

S-CL-CURRENT: 510/267; 510/392, 510/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20030162224 A1

L8: Entry 4 of 57

File: PGPB

Aug 28, 2003

GPUB-DOCUMENT-NUMBER: 20030162224

GPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030162224 A1

TITLE: Characterization of molecules

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
hait, Arnon	Bay Village	OH	US	
aslavsky, Boris	Solon	OH	US	

S-CL-CURRENT: 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 20030143700 A1

L8: Entry 5 of 57

File: PGPB

Jul 31, 2003

PUB-DOCUMENT-NUMBER: 20030143700
PUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143700 A1

TITLE: Methods for producing optically active alcohols

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yamamoto, Hiroaki	Ibaraki		JP	
Yamada, Momoko	Ibaraki		JP	
Yamada, Ritsuzui	Niigata		JP	
Yamatani, Takeshi	Niigata		JP	

CLASSIFICATION-CURRENT: 435/120; 435/155

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 20030134325 A1

L8: Entry 6 of 57

File: PGPB

Jul 17, 2003

PUB-DOCUMENT-NUMBER: 20030134325
PUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134325 A1

TITLE: Modified phycobilisomes and uses therefore

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bicciotti, Roger S.	Montclair	NJ	US	

CLASSIFICATION-CURRENT: 435/7.1; 435/317.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 20030109019 A1

L8: Entry 7 of 57

File: PGPB

Jun 12, 2003

PUB-DOCUMENT-NUMBER: 20030109019
PUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030109019 A1

TITLE: Mutant-type lipases and applications thereof

PUBLICATION-DATE: June 12, 2003

NTOR-INFORMATION:

	CITY	STATE	COUNTRY	RULE-47
g, Rey-Chang	Kaohsiung		TW	
, Shu-Jen	Taipei		TW	
, Jei-Fu	Taipei		TW	

L-CURRENT: 435/198; 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 20030087375 A1

B: Entry 8 of 57

File: PGPB

May 8, 2003

B-DOCUMENT-NUMBER: 20030087375

B-FILING-TYPE: new

MENT-IDENTIFIER: US 20030087375 A1

E: Sperm specific proteins

ICATION-DATE: May 8, 2003

NTOR-INFORMATION:

	CITY	STATE	COUNTRY	RULE-47
Zhonglin	Charlottesville	VA	US	
, John C.	Charlottesville	VA	US	
s, Friederike L.	Cary	NC	US	
ty, Jagathpala	Charlottesville	VA	US	
owicz, Michael J.	Charlottesville	VA	US	

L-CURRENT: 435/69.1; 424/146.1, 435/183, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 9. Document ID: US 20030077693 A1

B: Entry 9 of 57

File: PGPB

Apr 24, 2003

B-DOCUMENT-NUMBER: 20030077693

B-FILING-TYPE: new

MENT-IDENTIFIER: US 20030077693 A1

E: Use of p97 and iron binding proteins as diagnostic and therapeutic agents

ICATION-DATE: April 24, 2003

NTOR-INFORMATION:

	CITY	STATE	COUNTRY	RULE-47
eries, Wilfred A.	South Surrey		CA	
er, Patrick L.	Vancouver		CA	

henberger, Sylvia	Epalinges	CH
d, Michael R.	Vancouver	CA
ada, Tatsuo	Tokyo	JP
nard, Malcolm	Vancouver	CA

CL-CURRENT: 435/68.1; 435/7.23, 514/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 10. Document ID: US 20030077435 A1

8: Entry 10 of 57

File: PGPB

Apr 24, 2003

UB-DOCUMENT-NUMBER: 20030077435

UB-FILING-TYPE: new

UMENT-IDENTIFIER: US 20030077435 A1

LE: Novel coated membranes and other articles

LICATION-DATE: April 24, 2003

ENTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
rkoudian, John	Carlisle	MA	US	
ce, Neil P.	Merrimack	NH	US	

CL-CURRENT: 428/304.4; 428/315.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 11. Document ID: US 20030059402 A1

8: Entry 11 of 57

File: PGPB

Mar 27, 2003

UB-DOCUMENT-NUMBER: 20030059402

UB-FILING-TYPE: new

UMENT-IDENTIFIER: US 20030059402 A1

LE: Aquespheres, their preparation and uses thereof

LICATION-DATE: March 27, 2003

ENTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
, Tuo	Highland Park	NJ	US	
, Hua	Plainsboro	NJ	US	
, Jiahao	Brooklyn	NY	US	

CL-CURRENT: 424/93.2; 264/4.1, 424/491, 424/493, 424/85.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw Desc	Image
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☐ 12. Document ID: US 20030027354 A1

B: Entry 12 of 57

File: PGPB

Feb 6, 2003

B-DOCUMENT-NUMBER: 20030027354

B-FILING-TYPE: new

MENT-IDENTIFIER: US 20030027354 A1

E: Device for the analysis of chemical or biochemical specimens, comparative analysis, and
ciated analysis process

ICATION-DATE: February 6, 2003

NTOR-INFORMATION:

	CITY	STATE	COUNTRY	RULE-47
, Francois	Lyon		FR	

L-CURRENT: 436/178; 422/101, 436/177

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw Desc	Image
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☐ 13. Document ID: US 20020198127 A1

B: Entry 13 of 57

File: PGPB

Dec 26, 2002

B-DOCUMENT-NUMBER: 20020198127

B-FILING-TYPE: new

MENT-IDENTIFIER: US 20020198127 A1

E: Liquid cleaning compositions and their use

ICATION-DATE: December 26, 2002

NTOR-INFORMATION:

	CITY	STATE	COUNTRY	RULE-47
aanse, Arend Jan	Vlaardingen		NL	
Dijk, Willem Robert	Vlaardingen		NL	
, Ronald	Vlaardingen		NL	
ndijk, Marja	Vlaardingen		NL	
man, Simon Marinus	Vlaardingen		NL	

L-CURRENT: 510/305; 510/306, 510/392

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw Desc	Image
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☐ 14. Document ID: US 20020192173 A1

L8: Entry 14 of 57

File: PGPB

Dec 19, 2002

PUB-DOCUMENT-NUMBER: 20020192173

PUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020192173 A1

TITLE: Anhydrous treatment compositions for the delivery of reactive agents to amino-acid based substrates

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Glenn, Robert Wayne JR.	Surrey	OH	GB	
Borgerson, Peter Marte	Washington Courthouse		US	

-CL-CURRENT: 424/70.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 15. Document ID: US 20020178650 A1

L8: Entry 15 of 57

File: PGPB

Dec 5, 2002

PUB-DOCUMENT-NUMBER: 20020178650

PUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020178650 A1

TITLE: Low temperature stable diesel oil/alcohol mixtures

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kura, Michio	Kanata		CA	
Stanciulescu, Maria	Orleans		CA	
Bogan, Edward	Ottawa		CA	

-CL-CURRENT: 44/438

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 16. Document ID: US 6670438 B1

L8: Entry 16 of 57

File: USPT

Dec 30, 2003

-PAT-NO: 6670438

DOCUMENT-IDENTIFIER: US 6670438 B1

TITLE: Methods, compositions, and biomimetic catalysts for in vitro synthesis of silica,

polysilsequioxane, polysiloxane, and polymetallo-oxanes

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
orse; Daniel E.	Santa Barbara	CA		
tucky; Galen D.	Goleta	CA		
eming; Timothy D.	Summerland	CA		
ha; Jennifer	Goleta	CA		
himizu; Katsuhiko	Tochigi			JP
hou; Yan	Goleta	CA		

S-CL-CURRENT: [528/21](#); [423/326](#), [423/339](#), [428/364](#), [428/369](#), [428/370](#), [428/402](#), [435/188.5](#), [528/12](#),
[28/23](#), [528/39](#), [528/43](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 17. Document ID: US 6635224 B1

L8: Entry 17 of 57

File: USPT

Oct 21, 2003

S-PAT-NO: 6635224

DOCUMENT-IDENTIFIER: US 6635224 B1

TITLE: Online monitor for polymer processes

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
ui; John Yupeng	Niskayuna	NY		
ilva; James Manio	Clifton Park	NY		
arnahan; James Claude	Schenectady	NY		
ayer; Hugh Harrison	Mt. Vernon	IN		

S-CL-CURRENT: [422/62](#); [422/68.1](#), [422/82.01](#), [422/82.02](#), [422/82.05](#), [422/82.06](#), [422/82.07](#),
[22/82.08](#), [422/82.09](#), [436/34](#), [436/43](#), [436/52](#), [436/85](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 18. Document ID: US 6562788 B1

L8: Entry 18 of 57

File: USPT

May 13, 2003

S-PAT-NO: 6562788

DOCUMENT-IDENTIFIER: US 6562788 B1

TITLE: Topoisomerase II inhibitor

E-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Armandjian; Serge	Meudon			FR
De-Gallois; Valerie	Ivry sur Seine			FR
Boalen; Frederic	Bourg la Reine			FR

CL-CURRENT: 514/12; 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 19. Document ID: US 6559284 B1

Entry 19 of 57

File: USPT

May 6, 2003

PAT-NO: 6559284

DOCUMENT-IDENTIFIER: US 6559284 B1

TITLE: Process for purifying a protein

E-ISSUED: May 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arland; Hans	Bromma			SE
Strom; Lena	Stockholm			SE
Ersson; Josefine	Lund			SE
Ernelid; Folke	Malmo			SE

CL-CURRENT: 530/359; 530/412, 530/421, 530/422, 530/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 20. Document ID: US 6506879 B1

Entry 20 of 57

File: USPT

Jan 14, 2003

PAT-NO: 6506879

DOCUMENT-IDENTIFIER: US 6506879 B1

TITLE: Purified Apo A and Apo E compounds and methods for using them

E-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arland; Hans	Bromma			SE
Arander; Lena	Nacka-Strand			SE

L-CURRENT: [530/359](#); [435/69.1](#), [435/71.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 21. Document ID: US 6455494 B1

Entry 21 of 57

File: USPT

Sep 24, 2002

PAT-NO: 6455494

DOCUMENT-IDENTIFIER: US 6455494 B1

E: Use of p97, and iron binding proteins as diagnostic and therapeutic agents

ISSUED: September 24, 2002

INVENTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
eries; Wilfred A.	South Surrey			CA
er; Patrick L.	Vancouver			CA
enberger; Sylvia	Epalinges			CH
; Michael R.	Vancouver			CA
da; Tatsuo	Tokyo			JP
ard; Malcolm	Vancouver			CA

L-CURRENT: [514/2](#); [435/7.1](#), [530/350](#), [530/387.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 22. Document ID: US 6384008 B1

Entry 22 of 57

File: USPT

May 7, 2002

PAT-NO: 6384008

DOCUMENT-IDENTIFIER: US 6384008 B1

E: Non-aqueous liquid detergent compositions containing ethoxylated quaternized amine clay bounds

ISSUED: May 7, 2002

INVENTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
y; Diane	Cincinnati	OH		

L-CURRENT: [510/414](#); [510/276](#), [510/289](#), [510/299](#), [510/300](#), [510/304](#), [510/320](#), [510/332](#), [510/338](#), [510/341](#), [510/351](#), [510/357](#), [510/371](#), [510/374](#), [510/392](#), [510/400](#), [510/407](#), [510/432](#), [510/499](#), [510/504](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 23. Document ID: US 6361775 B1

: Entry 23 of 57

File: USPT

Mar 26, 2002

AT-NO: 6361775

MENT-IDENTIFIER: US 6361775 B1

: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

ISSUED: March 26, 2002

TOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
li; Uri	Wayne	PA		
k; Patricia M.	West Trenton	NJ		

L-CURRENT: [424/184.1](#); [424/155.1](#), [424/156.1](#), [424/218.1](#), [424/277.1](#), [424/278.1](#), [424/816](#),
[87.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 24. Document ID: US 6342389 B1

: Entry 24 of 57

File: USPT

Jan 29, 2002

AT-NO: 6342389

MENT-IDENTIFIER: US 6342389 B1

: Modified phycobilisomes and uses therefore

ISSUED: January 29, 2002

TOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
cciotti; Roger S.	Montclair	NJ	07042	

L-CURRENT: [435/317.1](#); [435/4](#), [435/7.1](#), [435/7.2](#), [435/7.8](#), [435/963](#), [436/518](#), [436/519](#), [436/524](#),
[27](#), [436/536](#), [530/391.3](#), [530/402](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 25. Document ID: US 6241921 B1

: Entry 25 of 57

File: USPT

Jun 5, 2001

AT-NO: 6241921

MENT-IDENTIFIER: US 6241921 B1

: Heterogeneous display elements and methods for their fabrication

-ISSUED: June 5, 2001

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
obson; Joseph M.	Newton	MA		
hizawa; Hidekazu	Brookline	MA		

L-CURRENT: 264/1.36; 264/1.7, 264/4.1, 264/437, 264/438

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 26. Document ID: US 6110745 A

8: Entry 26 of 57

File: USPT

Aug 29, 2000

AT-NO: 6110745

MENT-IDENTIFIER: US 6110745 A

E: Preparation of lipid-nucleic acid particles using a solvent extraction and direct
ation method

-ISSUED: August 29, 2000

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ng; Yuan-Peng	Mountain View	CA		
errer; Peter	Vancouver			CA
e; Michael J.	Vancouver			CA

L-CURRENT: 435/458; 264/4.1, 424/450, 424/93.2, 435/320.1, 435/325, 435/91.1, 435/91.31,
44, 536/23.1, 536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 27. Document ID: US 6090921 A

8: Entry 27 of 57

File: USPT

Jul 18, 2000

AT-NO: 6090921

MENT-IDENTIFIER: US 6090921 A

E: Process for purifying apolipoprotein a or apolipoprotein e

-ISSUED: July 18, 2000

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ge; Stefan	Stockholm			SE
lund; Sara	Skarpnack			SE

S-CL-CURRENT: [530/359](#); [530/380](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 28. Document ID: US 5998588 A

L8: Entry 28 of 57

File: USPT

Dec 7, 1999

S-PAT-NO: 5998588

DOCUMENT-IDENTIFIER: US 5998588 A

* See image for Certificate of Correction **

TITLE: Interactive molecular conjugates

DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Offman; Allan S.	Seattle	WA		
Stayton; Patrick S.	Seattle	WA		

S-CL-CURRENT: [530/402](#); [424/178.1](#), [424/193.1](#), [424/280.1](#), [424/78.08](#), [424/94.1](#), [530/350](#),
[530/387.1](#), [530/391.1](#), [530/395](#), [530/399](#), [530/403](#), [530/404](#), [530/405](#), [530/406](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 29. Document ID: US 5993851 A

L8: Entry 29 of 57

File: USPT

Nov 30, 1999

S-PAT-NO: 5993851

DOCUMENT-IDENTIFIER: US 5993851 A

TITLE: Method for preparing biphasic multilamellar lipid vesicles

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Soldvari; Marianna	Saskatoon			CA

S-CL-CURRENT: [424/450](#); [264/4.1](#), [264/4.3](#), [264/4.32](#), [264/4.6](#), [424/1.21](#), [424/417](#), [424/85.7](#),
[4/9.321](#), [424/9.51](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 30. Document ID: US 5990081 A

L8: Entry 30 of 57

File: USPT

Nov 23, 1999

-PAT-NO: 5990081

DOCUMENT-IDENTIFIER: US 5990081 A

TITLE: Purified APO A and APO E compounds and methods for using them

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wernberg; Hans	Bromma			SE
Wernberg; Lena	Nacka-Strand			SE

-CL-CURRENT: 514/2; 424/406, 435/69.1, 435/69.6, 514/20, 514/21, 530/359, 530/361, 530/402,
530/421, 530/427

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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☐ 31. Document ID: US 5981194 A

L8: Entry 31 of 57

File: USPT

Nov 9, 1999

-PAT-NO: 5981194

DOCUMENT-IDENTIFIER: US 5981194 A

TITLE: Use of p97 and iron binding proteins as diagnostic and therapeutic agents

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wernberg; Wilfred A.	South Surrey			CA
Wernberg; Patrick L.	Vancouver			CA
Wernberg; Sylvia	Epalinges			CH
Wernberg; Michael R.	Vancouver			CA
Wernberg; Tatsuo	Tokyo			JP
Wernberg; Malcolm	Vancouver			CA

-CL-CURRENT: 435/7.1; 530/387.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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☐ 32. Document ID: US 5907035 A

L8: Entry 32 of 57

File: USPT

May 25, 1999

-PAT-NO: 5907035

DOCUMENT-IDENTIFIER: US 5907035 A

TITLE: Aqueous two-phase metal affinity partitioning protein purification system

-ISSUED: May 25, 1999

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
n; Martin R.	Boulder	CO		

L-CURRENT: 530/412; 530/380, 530/385

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw Desc	Image
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☐ 33. Document ID: US 5882520 A

3: Entry 33 of 57

File: USPT

Mar 16, 1999

AT-NO: 5882520

MENT-IDENTIFIER: US 5882520 A

ee image for Certificate of Correction **

E: Use of arabinogalactan in aqueous two phase extractions

-ISSUED: March 16, 1999

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ards; Geoffrey N.	Missoula	MT		
ey-Harris; Marilyn	Missoula	MT		

L-CURRENT: 210/623; 210/634, 210/639, 252/364, 435/183, 435/267, 435/816

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMOC	Draw Desc	Image
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☐ 34. Document ID: US 5879675 A

3: Entry 34 of 57

File: USPT

Mar 9, 1999

AT-NO: 5879675

MENT-IDENTIFIER: US 5879675 A

ee image for Certificate of Correction **

E: Compositions and methods for vaccines comprising .alpha.-galactosyl epitopes

-ISSUED: March 9, 1999

NTOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
li; Uri	Wayne	PA		
k; Patricia M.	West Trenton	NJ		

L-CURRENT: 424/93.1; 424/155.1, 424/156.1, 424/159.1, 424/184.1, 424/218.1, 424/277.1, 278.1, 424/816

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 35. Document ID: US 5853755 A

L8: Entry 35 of 57

File: USPT

Dec 29, 1998

PAT-NO: 5853755

DOCUMENT-IDENTIFIER: US 5853755 A

TITLE: Biphasic multilamellar lipid vesicles

E-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
dvvari; Marianna	Saskatoon			CA

CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.32, 264/4.6, 424/1.21, 424/417, 424/9.321,
/9.51, 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 36. Document ID: US 5723310 A

L8: Entry 36 of 57

File: USPT

Mar 3, 1998

PAT-NO: 5723310

DOCUMENT-IDENTIFIER: US 5723310 A

See image for Certificate of Correction **

TITLE: Aqueous multiple-phase isolation of polypeptide

E-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
lder; Stuart	Belmont	CA		
t; Roger	Burlingame	CA		
ter; Philip	San Lorenzo	CA		
z; John	Redwood City	CA		
fsnyder; David	San Mateo	CA		

CL-CURRENT: 435/69.1; 435/70.1, 435/803, 435/804, 530/399, 530/402, 530/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw Desc	Image
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☐ 37. Document ID: US 5705385 A

8: Entry 37 of 57

File: USPT

Jan 6, 1998

PAT-NO: 5705385

UMENT-IDENTIFIER: US 5705385 A

LE: Lipid-nucleic acid particles prepared via a hydrophobic lipid-nucleic acid complex
intermediate and use for gene transfer

E-ISSUED: January 6, 1998

ENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
ly; Marcel B.	Bowen Island			CA
ng; Yuan-Peng	Vancouver			CA
mer; Dorothy L.	Vancouver			CA
eler; Jeffery J.	Richmond			CA

CL-CURRENT: 435/320.1; 264/4.1, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw Desc	Image
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☐ 38. Document ID: US 5695760 A

8: Entry 38 of 57

File: USPT

Dec 9, 1997

PAT-NO: 5695760

UMENT-IDENTIFIER: US 5695760 A

LE: Modified anti-ICAM-1 antibodies and their use in the treatment of inflammation

E-ISSUED: December 9, 1997

ENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
nes; Ronald Bertrand	Pound Ridge	NY		
off; Paul Edward	Watertown	CT		
rley; Bret Allen	New Milford	CT		
er; David Stuart	Danbury	CT		

CL-CURRENT: 424/178.1; 424/181.1, 530/388.85, 530/391.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw Desc	Image
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☐ 39. Document ID: US 5567567 A

8: Entry 39 of 57

File: USPT

Oct 22, 1996

PAT-NO: 5567567

MENT-IDENTIFIER: US 5567567 A

TITLE: Method for producing encapsulated toner for heat-and-pressure fixing and encapsulated toner obtained thereby

DATE-ISSUED: October 22, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wakayama; Koji	Wakayama			JP
Amaguchi; Takashi	Arida			JP
Wakayama; Koji	Wakayama-ken			JP
Wakayama; Koji	Wakayama			JP

S-CL-CURRENT: 430/110.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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☐ 40. Document ID: US 5407810 A

L8: Entry 40 of 57

File: USPT

Apr 18, 1995

S-PAT-NO: 5407810

DOCUMENT-IDENTIFIER: US 5407810 A

TITLE: Aqueous multiple-phase isolation of polypeptide

DATE-ISSUED: April 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Builer; Stuart	Belmont	CA		
Art; Roger	Burlingame	CA		
ester; Philip	San Lorenzo	CA		
gez; John	Redwood City	CA		
iefsnyder; David	San Mateo	CA		

S-CL-CURRENT: 435/69.1; 435/804, 530/399, 530/412, 530/422, 530/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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☐ 41. Document ID: US 5244803 A

L8: Entry 41 of 57

File: USPT

Sep 14, 1993

S-PAT-NO: 5244803

DOCUMENT-IDENTIFIER: US 5244803 A

TITLE: Process for preparing optically active 3-phenylglycidic acid esters

DATE-ISSUED: September 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
ori; Takao	Takatsuki			JP
urutani; Toshiyuki	Osaka			JP
akao; Akio	Osaka			JP
sujimura; Atsuhiko	Takatsuki			JP
uibatani; Takeji	Kobe			JP

-CL-CURRENT: 435/280; 435/123, 435/824, 435/832, 435/840, 435/843, 435/850, 435/859, 435/863,
5/874, 435/878, 435/910, 435/921, 435/938, 540/491

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 42. Document ID: US 5196470 A

L8: Entry 42 of 57

File: USPT

Mar 23, 1993

-PAT-NO: 5196470

DOCUMENT-IDENTIFIER: US 5196470 A

TITLE: Water soluble alcohol based nonwoven binder for water swellable, soluble or sensitive
bers

TE-ISSUED: March 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anderson; Stewart C.	Eden Prairie	MN		
Almsten; Richard	Vadnais Heights	MN		

-CL-CURRENT: 524/379; 524/388, 524/389, 528/489

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 43. Document ID: US 4634540 A

L8: Entry 43 of 57

File: USPT

Jan 6, 1987

-PAT-NO: 4634540

DOCUMENT-IDENTIFIER: US 4634540 A

TITLE: Composition and method for modifying and augmenting recovery of hydrocarbons from
hydrocarbon-bearing formations

TE-ISSUED: January 6, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Opp; Richard C.	Warren	NJ	07060	

-CURRENT: [507/266](#); [166/270](#), [208/143](#), [507/269](#), [507/271](#), [507/273](#), [507/935](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw Desc	Image
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☐ 44. Document ID: US 4539235 A

: Entry 44 of 57

File: USPT

Sep 3, 1985

AT-NO: 4539235

MENT-IDENTIFIER: US 4539235 A

: Method for treating wood

ISSUED: September 3, 1985

ATOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ins; Albert V.	Fairview Park	OH		
s; Richard W.	Lakewood	OH		

-CURRENT: [427/440](#); [106/18.31](#), [106/18.35](#), [428/541](#), [514/494](#), [514/496](#), [514/498](#), [514/502](#),
[514/503](#), [514/505](#), [514/89](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw Desc	Image
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☐ 45. Document ID: US 4507152 A

: Entry 45 of 57

File: USPT

Mar 26, 1985

AT-NO: 4507152

MENT-IDENTIFIER: US 4507152 A

E: Fungicidal and insecticidal compositions for treating wood

ISSUED: March 26, 1985

ATOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ins; Albert V.	Fairview Park	OH		
s; Richard W.	Lakewood	OH		

-CURRENT: [106/18.31](#); [106/18.35](#), [514/494](#), [514/496](#), [514/498](#), [514/502](#), [514/503](#), [514/505](#),
[514/509](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Draw Desc	Image
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☐ 46. Document ID: US 4443357 A

: Entry 46 of 57

File: USPT

Apr 17, 1984

T-NO: 4443357

ENT-IDENTIFIER: US 4443357 A

[e image for Certificate of Correction](#) **

: Hydrophobic silica or silicate, compositions containing the same and methods for making
sing the same

ISSUED: April 17, 1984

TOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
ney; James E.	Eagan	MN		
s; Thomas R.	Stillwater	MN		

-CURRENT: [516/117](#); [106/491](#), [162/158](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Full Text	Claims	KMC	Draw Desc	Image
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☐ 47. Document ID: US 4248698 A

: Entry 47 of 57

File: USPT

Feb 3, 1981

T-NO: 4248698

ENT-IDENTIFIER: US 4248698 A

[e image for Certificate of Correction](#) **

: Coal recovery process

ISSUED: February 3, 1981

TOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
r, Jr.; Douglas V.	Lafayette	NY		

-CURRENT: [44/551](#); [209/5](#), [241/15](#), [241/16](#), [44/556](#), [44/574](#), [44/595](#), [44/624](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Full Text	Claims	KMC	Draw Desc	Image
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☐ 48. Document ID: US 3988261 A

: Entry 48 of 57

File: USPT

Oct 26, 1976

T-NO: 3988261

ENT-IDENTIFIER: US 3988261 A

[e image for Certificate of Correction](#) **

: Frozen organic peroxide emulsion

ISSUED: October 26, 1976

TOR-INFORMATION:

	CITY	STATE	ZIP CODE	COUNTRY
er; James A.	Akron	OH		
ens; Henry C.	Akron	OH		
Hoozer; John F.	Bethel Park	PA		

-CURRENT: 502/160; 252/186.26, 526/202, 526/348

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw Desc	Image
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☐ 49. Document ID: NZ 514891 A, WO 200058342 A1, AU 200035621 A, EP 1163260 A1, NO 200104534 A, KR 2001108400 A, CN 1357005 A, JP 2002543766 W

: Entry 49 of 57

File: DWPI

Oct 31, 2003

ENT-ACC-NO: 2000-686858

ENT-WEEK: 200380

RIGHT 2004 DERWENT INFORMATION LTD

E: Isolation and purification of proteins or cells in aqueous two-phase systems, comprises
aining a desired protein or a cell to a targeting protein capable of isolating the protein
ell into one of the phases

UTOR: FAGERSTROEM, R; KULA, M ; LINDER, M ; NAKARI-SETAELAE, T ; PENTTILAE, M ; SELBER, K ;
JELD, F ; FAGERSTROM, R ; NAKARI-SETALA, T ; PENTTILA, M

RITY-DATA: 1999FI-0001782 (August 20, 1999), 1999FI-0000667 (March 25, 1999)

NT-FAMILY:

NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
14891 A	October 31, 2003		000	C07K001/14
00058342 A1	October 5, 2000	E	109	C07K001/14
00035621 A	October 16, 2000		000	C07K001/14
163260 A1	December 19, 2001	E	000	C07K001/14
00104534 A	November 26, 2001		000	C07K000/00
001108400 A	December 7, 2001		000	C07K001/20
357005 A	July 3, 2002		000	C07K001/14
002543766 W	December 24, 2002		112	C12N015/09

PL (IPC): B01 D 17/025; B01 D 17/038; C07 K 0/00; C07 K 1/14; C07 K 1/20; C07 K 14/37; C07
00; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/24; C12 N 15/09; C12 N 15/62;
21/02; C12 R 1:885

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw Desc	Image
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☐ 50. Document ID: US 3814706 A

: Entry 50 of 57

File: USOC

Jun 4, 1974

T-NO: 3814706

ENT-IDENTIFIER: US 3814706 A

E: SILICONE RESINS USED AS SURFACTANTS IN VINYL CHLORIDE FOAM

-ISSUED: June 4, 1974

NTOR-NAME: HOLDSTOCK N; MOELLER R ; SIMONEAU E

L-CURRENT: [521/74](#), [264/50](#), [516/23](#), [516/DIG.6](#), [521/134](#), [521/86](#), [521/88](#), [521/911](#), [524/145](#),
[285](#), [524/297](#), [524/321](#), [524/569](#), [525/104](#), [528/10](#), [528/32](#), [528/42](#), [528/43](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Image
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☐ 51. Document ID: US 3798189 A

8: Entry 51 of 57

File: USOC

Mar 19, 1974

AT-NO: 3798189

MENT-IDENTIFIER: US 3798189 A

E: SILICONE RESINS USED AS SURFACTANTS IN VINYL CHLORIDE FOAM

-ISSUED: March 19, 1974

NTOR-NAME: HOLDSTOCK N; MOELLER R ; SIMONEAU E

L-CURRENT: [521/74](#), [264/50](#), [516/23](#), [516/DIG.6](#), [521/134](#), [521/145](#), [521/86](#), [521/911](#), [524/297](#),
[569](#), [525/104](#), [528/10](#), [528/32](#), [528/43](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Image
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☐ 52. Document ID: US 3756992 A

8: Entry 52 of 57

File: USOC

Sep 4, 1973

AT-NO: 3756992

MENT-IDENTIFIER: US 3756992 A

E: POLYURETHANE POLYELECTROLYTES AND PROCESS FOR PREPARING SAME

-ISSUED: September 4, 1973

NTOR-NAME: DIETERICH D

L-CURRENT: [524/591](#), [156/331.7](#), [521/162](#), [521/163](#), [521/170](#), [521/65](#), [525/428](#), [525/440](#),
[453](#), [525/456](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Image
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☐ 53. Document ID: US 3567512 A

8: Entry 53 of 57

File: USOC

Mar 2, 1971

S-PAT-NO: 3567512

DOCUMENT-IDENTIFIER: US 3567512 A

TITLE: PROCESS FOR THE PURIFICATION OF SUGAR BEET DIFFUSION JUICE

DATE-ISSUED: March 2, 1971

INVENTOR-NAME: LYONS JOHN W; MILES CHARLES E

S-CL-CURRENT: [127/48](#), [127/50](#), [426/648](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 54. Document ID: US 3491061 A

L8: Entry 54 of 57

File: USOC

Jan 20, 1970

S-PAT-NO: 3491061

DOCUMENT-IDENTIFIER: US 3491061 A

TITLE: BUFFERING AGENTS IN INTERFACIAL PHOSPHORUS POLYESTER PROCESS

DATE-ISSUED: January 20, 1970

INVENTOR-NAME: MILLICH FRANK; CARRAHER CHARLES E

S-CL-CURRENT: [528/169](#), [528/168](#), [528/223](#), [528/399](#), [528/400](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 55. Document ID: US 3288729 A

L8: Entry 55 of 57

File: USOC

Nov 29, 1966

S-PAT-NO: 3288729

DOCUMENT-IDENTIFIER: US 3288729 A

TITLE: Open-cell polyvinyl chloride foam

DATE-ISSUED: November 29, 1966

INVENTOR-NAME: DEAL KENNETH M; WHITMAN PETER A ; WATERMAN RAYMOND R

S-CL-CURRENT: [521/74](#), [264/50](#), [264/DIG.13](#), [264/DIG.60](#), [521/145](#), [521/82](#), [521/88](#), [521/911](#),
[521/93](#), [524/143](#), [524/292](#), [524/296](#), [524/317](#), [524/394](#), [524/397](#), [987/209](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 56. Document ID: US 2834052 A

L8: Entry 56 of 57

File: USOC

May 13, 1958

S-PAT-NO: 2834052

DOCUMENT-IDENTIFIER: US 2834052 A

TITLE: Method of making mold masters

DATE-ISSUED: May 13, 1958

INVENTOR-NAME: HUNN JAMES V

S-CL-CURRENT: 205/70; 264/227, 264/DIG.60, 425/DIG.29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 57. Document ID: US 2736669 A

L8: Entry 57 of 57

File: USOC

Feb 28, 1956

S-PAT-NO: 2736669

DOCUMENT-IDENTIFIER: US 2736669 A

TITLE: Method of activating and esterifying the surface of finely divided particles of silica having surface silanol groups

DATE-ISSUED: February 28, 1956

INVENTOR-NAME: GOEBEL MAX T

S-CL-CURRENT: 427/220; 106/481, 106/490, 252/384, 427/314

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Term	Documents
SURFACTANT	238723
SURFACTANTS	153087
AMPHIPHILIC	9176
AMPHIPHILICS	23
AQUEOUS	996521
AQ	305869
TWO	7609536
TWOES	46
TWOS	3240
TWOE	349

((HYDROPHOB\$ OR SURFACTANT OR AMPHIPHILIC) SAME (AQUEOUS SAME TWO ADJ PHASE) AND (FUSION OR CHIMER\$)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	57
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E: Tuesday, May 25, 2004

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	<u>Name</u>		<u>Count</u>
	<i>DB=PGPB,USPT,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>		
L9		hydrophob\$ and (fusion or chimer\$)same aqueous adj two adj phase\$	8
L8		hydrophobin? and aqueous adj two adj phase\$	1
L7		hydrophobin? and (fusion or chimer\$) and aqueous adj two adj phase\$	1
L6		hydroph\$ same fusion and aqueous adj two adj phase\$	6
L5		hydroph\$ and aqueous adj two adj phase\$	192
L4		hydroph\$ same protein? same ((fusion or chimer\$) same (protein? or polypeptide?)) and aqueous same two same phase\$	88
L3		hydroph\$ same protein? and ((fusion or chimer\$) same (protein? or polypeptide?)) and aqueous same two same phase\$	391
L2		hydroph\$ and aqueous same two same phase\$	9621
L1		hydroph\$ same ((fusion or chimer\$) same (protein? or polypeptide?)) same two same phase\$	7

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20040092727 A1

ag default format because multiple data bases are involved.

6: Entry 1 of 6

File: PGPB

May 13, 2004

JB-DOCUMENT-NUMBER: 20040092727

JB-FILING-TYPE: new

UMENT-IDENTIFIER: US 20040092727 A1

LE: Cochleates without metal cations as bridging agents

LICATION-DATE: May 13, 2004

ENTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
, Tuo	Highland Park	NJ	US	

CL-CURRENT: 534/15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 20030157070 A1

6: Entry 2 of 6

File: PGPB

Aug 21, 2003

JB-DOCUMENT-NUMBER: 20030157070

JB-FILING-TYPE: new

UMENT-IDENTIFIER: US 20030157070 A1

LE: High efficiency ex vivo transduction of cells by high titer recombinant retroviral
parations

LICATION-DATE: August 21, 2003

ENTOR-INFORMATION:

E	CITY	STATE	COUNTRY	RULE-47
ly, Douglas J.	Leucadia	CA	US	

CL-CURRENT: 424/93.21; 435/372, 435/455, 435/456

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 6433147 B1

L6: Entry 3 of 6

File: USPT

Aug 13, 2002

S-PAT-NO: 6433147

DOCUMENT-IDENTIFIER: US 6433147 B1

* See image for Certificate of Correction **

TITLE: Death domain containing receptor-4

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Jian	Rockville	MD		
Rosen; Craig A.	Laytonsville	MD		
Shan; James G.	Belmont	CA		
Stentz; Reiner L.	Rockville	MD		
Schmitt; Vishva M.	Los Altos Hills	CA		

S-CL-CURRENT: 530/387.3; 424/178.1, 435/252.3, 435/254.11, 435/325, 435/69.1, 530/300,
530/350, 530/402, 536/23.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Draw Desc	Image
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☐ 4. Document ID: US 5614409 A

L6: Entry 4 of 6

File: USPT

Mar 25, 1997

S-PAT-NO: 5614409

DOCUMENT-IDENTIFIER: US 5614409 A

TITLE: Production of IBDV VP2 in highly immunogenic form

DATE-ISSUED: March 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alizad; Ahmed A.	Lower Templestowe			AU
Macreadie; Ian G.	Templestowe			AU
McKern; Neil M.	Lilydale			AU
Naughtan; Paul R.	Rowville			AU
Magadish; Mittur N.	Gladstone Park			AU
Mahey; Kevin J.	Templestowe			AU
Chapman; Antony J.	Murrumbeena			AU
Reine; Hans-Georg	Coburg			AU

S-CL-CURRENT: 435/252.3; 424/192.1, 424/204.1, 435/320.1, 435/69.3, 530/395, 530/403,
536/23.4, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Examinations	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 5304310 A

L6: Entry 5 of 6

File: USPT

Apr 19, 1994

-PAT-NO: 5304310

DOCUMENT-IDENTIFIER: US 5304310 A

TITLE: Method for concentrating and purifying hirudin from leeches

DATE-ISSUED: April 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lang; Kurt	Penzberg			DE
Reimeyer; Andreas	Roemerberg			DE

-CL-CURRENT: 210/639; 424/550, 514/21, 530/344, 530/855

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Examinations	Claims	KMC	Draw Desc	Image
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☐ 6. Document ID: NZ 514891 A, WO 200058342 A1, AU 200035621 A, EP 1163260 A1, NO 200104534 A, KR 2001108400 A, CN 1357005 A, JP 2002543766 W

L6: Entry 6 of 6

File: DWPI

Oct 31, 2003

RWENT-ACC-NO: 2000-686858

RWENT-WEEK: 200380

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TITLE: Isolation and purification of proteins or cells in aqueous two-phase systems, comprises combining a desired protein or a cell to a targeting protein capable of isolating the protein cell into one of the phases

INVENTOR: FAGERSTROEM, R; KULA, M ; LINDER, M ; NAKARI-SETAELAE, T ; PENTTILAE, M ; SELBER, K ; ERNELD, F ; FAGERSTROM, R ; NAKARI-SETALA, T ; PENTTILA, M

PRIORITY-DATA: 1999FI-0001782 (August 20, 1999), 1999FI-0000667 (March 25, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>NZ 514891 A</u>	October 31, 2003		000	C07K001/14
<u>WO 200058342 A1</u>	October 5, 2000	E	109	C07K001/14
<u>AU 200035621 A</u>	October 16, 2000		000	C07K001/14
<u>EP 1163260 A1</u>	December 19, 2001	E	000	C07K001/14
<u>NO 200104534 A</u>	November 26, 2001		000	C07K000/00
<u>KR 2001108400 A</u>	December 7, 2001		000	C07K001/20
<u>CN 1357005 A</u>	July 3, 2002		000	C07K001/14
<u>JP 2002543766 W</u>	December 24, 2002		112	C12N015/09

EL (IPC): B01 D 17/025; B01 D 17/038; C07 K 0/00; C07 K 1/14; C07 K 1/20; C07 K 14/37; C07
00; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/24; C12 N 15/09; C12 N 15/62;
21/02; C12 R 1:885

Full	Title	Citation	Front	Review	Classification	Date	Reference	Forward Refs	Backward Refs	Claims	KMC	Draw Desc	Image
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